Page 1 of 1 Applicant(s) Application No. Joseph A. Zupanick 10/749.884 **Group Art Unit** Filing Date **Docket Number** mormation Disclosure Citation 067083.0287 **December 31, 2003** in an Application **U.S. PATENT DOCUMENTS** SUBCLASS FILING DATE **CLASS** NAME DOCUMENT NO. DATE 02/05/1923 J. J. Fitzpatrick N/A N/A 1,488,106 03/25/1924 A 175 61 12/31/1979 В 06/08/1992 Lyons et al. 4,333,539 08/06/1993 LeBlanc et al. 166 265 Ċ 05/02/1995 5,411,088 105.5 05/12/1995 D 5,653,286 08/05/1997 McCoy et al. 166 04/03/1996 166 98 E 5,775,433 07/07/1998 Hammett et al. 07/31/1998 105.5 01/30/2001 166 F 6,179,054 Stewart 09/27/1999 369 03/19/2002 Kennedy et al. 166 G 6,357,530 **FOREIGN PATENT DOCUMENTS** TRANSLATION COUNTRY CLASS SUB YES NO DOCUMENT NO. DATE E21F 5/00-F 7/00 н SU-1448078-A1 03/25/1987 Russia W) E21F 7/00 X SU-1770570-A1 03/30/1990 Russia E21C 45/00 X SU-750108 06/26/1975 Russia J 27/24 X 08/13/1998 PCT E21C WO 98/35133 K 43/38 $\overline{\mathbf{x}}$ PCT E21B L WO 01/44620 06/21/2001 $\overline{\mathbf{x}}$ 10/28/1992 Great Britain B04B 11/02 M GB 2 255 033

NON-PATENT DOCUMENTS

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
RS	P	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) mailed February 9, 2004 (6 pages) re International Application No. PCT/US 03/28138.	09/09/2003
1	Q	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) mailed February 27, 2004 (9 pages) re International Application No. PCT/US 03/30126.	09/23/2003
	R	Fletcher, "Anadarko Cuts Gas Route Under Canadian River Gorge," Oil and Gas Journal, pp. 28-30	January 25, 2004
	S	Translation of selected pages of Kalinin, et al., "Drilling Inclined and Horizontal Well Bores," Nedra Publishers, Moscow, 1997, 15 pages	1997
<u></u> 262	T	Translation of selected pages of Arens, V.Zh., "Well-Drilling Recovery of Minerals," Geotechnology, Nedra Publishers, Moscow, 7 pages, 1986	1986

EXAMINER DATE CONSIDERED 8/19/04

01/13/1998

01/15/1986

Canada

Germany

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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l	nforn	nation Disclosu in an Applicat		Docket Num 067083.02	ber	Group Art Unit Unassigned	Filing Date December	31, 2003
				U.S. PATENT	DOCUME	NTS		
		DOCUMENT NO.	DATE	N.A	ME	CLASS	SUBCLASS	FILING DATE
793	A.	54,144	04/24/1866	Hamar	- <u>-</u>			
1	В.	274,740	03/27/1883	Douglass				12/02/1892
1	C.	526,708	10/02/1894	Horton				09/01/1893
	D.	639,036	12/12/1899	Heald				08/21/1899
+	E.	1,189,560	07/04/1916	Gondos				10/21/1914
1	F.	1,285,347	11/19/1918	Otto				02/09/1918
\dashv	G.	1,467,480	09/11/1923	Hogue				12/19/1921
1	Н.	1,485,615	03/04/1924	Jones			-	12/08/1920
\top	I.	1,674,392	06/19/1928	Flansburg				08/06/1927
1	J.	1,777,961	10/07/1930	Capeliuschnico	off			04/04/1927
1	K.	2,018,285	10/22/1935	Schweitzer et a	ıl.	166	21	11/27/1934 :
\top	L.	2,069,482	02/02/1937	Seay	· · · · · · · · · · · · · · · · · · ·	255	76	04/18/1935
\top	M.	2,150,228	03/14/1939	Lamb		166	10	08/31/1936
†	N.	2,169,718	08/15/1939	Boll et al.		255	24	04/01/1937
+	0.	2,335,085	11/23/1943	Roberts		251	197	03/18/1947
1	P.	2,450,223	09/28/1948	Barbour		255	76	11/25/1944
\top	Q.	2,490,350	12/06/1949	Grable		166	4	12/15/1943
+	R.	2,679,903	06/01/1954	McGowen, Jr.	et al.	166	1	11/23/1949
\top	S.	2,726,063	12/06/1955	Ragland et al.		255	1.8	05/10/1952
	T.	2,726,847	03/31/1952	McCune et al.		255	1.6	03/31/1952
1	U.	2,783,018	02/26/1957	Lytle		251	25	02/11/1955
1	V.	2,847,189	08/12/1958	Shook		255	76	01/08/1953
	W.	2,911,008	11/03/1959	Du Bois	• • • •	137	625.31	04/09/1956
\top	X.	2,980,142	04/18/1961	Turak		137	637.3	09/08/1958
7	Y.	3,347,595	10/17/1967	Dahms et al.		299	4	05/03/1965
PPS	Z.	3,443,648	05/13/1969	Howard		175	103	09/13/1967

EXAMINER: Initial if citation copsidered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. Patent and Trademark Office

	-1449		4	Application No. Unassigned	Applicant(s) Joseph A. Zup	anick	
lr	iforn	nation Disclosu in an Applicat		Docket Number 067083.0287	Group Art Unit Unassigned	Filing Date December	31, 2003
				U.S. PATENT DOCUMEN	TS		
	_	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
195	A.	3,473,571	10/21/1969	Dugay	137	625.4	12/27/1967
7	B.	3,503,377	03/31/1970	Beatenbough et al.	123	117	07/30/1968
\sqcap	C.	3,528,516	09/15/1970	Brown	175	267	08/21/1968
$\dagger \dagger$	D.	3,530,675	09/29/1970	Turzillo	61	35	08/26/1968
$\dagger \dagger$	E.	3,684,041	08/15/1972	Kammerer, Jr. et al.	175	267	11/16/1970
$\dagger \dagger$	F.	3,692,041	09/19/1972	Bondi	137	238	01/04/1971
$\dagger \dagger$	G.	3,757,876	09/11/1973	Pereau	175	267	09/01/1971
$\dagger \dagger$	Н.	3,757,877	09/11/1973	Leathers	175	269	12/30/1971
H	1.	3,800,830	04/02/1974	Etter	137	625.41	01/11/1973
H	J.	3,809,519	05/07/1974	Garner	425	245	10/19/1972
H	K.	3,825,081	07/23/1974	McMahon	175	73	03/08/1973
H	L.	3,828,867	08/13/1974	Elwood	175	45	05/15/1972
Н	M.	3,874,413	04/01/1975	Valdez	137	625.47	04/01/1975
Н	N.	3,887,008	06/03/1975	Canfield	166	267	03/21/1974
H	0.	3,902,322	09/02/1975	Watanabe	61	35	08/27/1973
\vdash	P.	3,934,649	01/27/1976	Pasini, III et al.	166	254	07/25/1974
	Q.	3,957,082	05/18/1976	Fuson et al.	137	625.41	09/26/1974
\vdash	R.	3,961,824	06/08/1976	Van Eek et al.	299	17	10/21/1974
	S.	4,011,890	03/15/1977	Andersson	137	625.4	11/04/1975
	Т.	4,022,279	05/10/1977	Driver	166	271	12/23/1974
	U.	4,030,310	06/21/1977	Schirtzinger	61	86	03/04/1976
	V.	4,037,658	07/26/1977	Anderson	166	272	10/30/1975
	W.	4,073,351	02/14/1978	Baum	175	14	06/10/1976
	X.	4,089,374	05/16/1978	Тепту	166	259	12/16/1976
\vdash	Y.	4,116,012	09/26/1978	Abe et al.	405	238	07/14/1977
)	Z.	4,136,996	01/30/1979	Burns	405	195	05/23/1977
705	AA.	4,156,437	05/29/1979	Chivens et al.	137	554	02/21/1978
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-1449			Application No. Unassigned	Applicant(s) Joseph A. Zur	anick	
nform			Docket Number 067083.0287	Group Art Unit Unassigned	Filing Date December	31, 2003
			U.S. PATENT DOCUME	ENTS		
	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A.	4,169,510	10/02/1979	Meigs	175		08/16/1977
В.	4,189,184	02/19/1980	Green	299	8	10/13/1978
C.	4,220,203	09/02/1980	Steeman	166	271	12/06/1978
D.	4,221,433	09/09/1980	Jacoby	299	4	07/20/1978
E.	4,257,650	03/24/1981	Allen	299	2	09/07/1978
F.	4,278,137	07/14/1981	Van Eek, deceased	175	267	06/18/1979
G.	4,283,088	08/11/1981	Tabakov et al.	299	2	05/14/1979
Н.	4,296,785	10/27/1981	Vitello et al.	141	105	07/09/1979
I.	4,299,295	11/10/1981	Gossard	175	45	02/08/1980
J.	4,303,127	12/01/1981	Freel et al.	166	266	02/11/1980
K.	4,305,464	12/15/1981	Masszi	166	370	03/07/1980
L.	4,312,377	01/26/1982	Knecht	137	625.19	08/29/1979
М.	4,317,492	03/02/1982	Summers et al.	175	79	02/26/1980
N.	4,328,577	05/04/1982	Abbott et al.	370	84	06/03/1980
О.	4,366,988	01/04/1983	Bodine	299	14	04/07/1980
P.	4,372,398	02/08/1983	Kuckes	175	45	11/04/1980
Q.		06/07/1983	Dellinger	175	61	10/27/1981
R.			Willman	166	245	04/06/1981
S.		08/02/1983	Inoue	175	265	04/27/1981
Т.		08/09/1983	Schmidt	175	61	07/06/1981
U.		08/30/1983	Fuchs	175	267	12/10/1981
V.		1	Inoue			06/26/1981
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		l			<u> </u>	03/19/1984
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	A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V.	DOCUMENT NO. A. 4,169,510 B. 4,189,184 C. 4,220,203 D. 4,221,433 E. 4,257,650 F. 4,278,137 G. 4,283,088 H. 4,296,785 I. 4,299,295 J. 4,303,127 K. 4,305,464 L. 4,312,377 M. 4,317,492 N. 4,328,577 O. 4,366,988 P. 4,372,398 Q. 4,386,665 R. 4,390,067 S. 4,390,067 S. 4,396,076 T. 4,397,360 U. 4,401,171 V. 4,407,376 W. 4,442,896 X. 4,494,616 Y. 4,512,422 Z. 4,519,463 AA. 4,527,639	DOCUMENT NO. DATE A. 4,169,510 10/02/1979 B. 4,189,184 02/19/1980 C. 4,220,203 09/02/1980 D. 4,221,433 09/09/1981 F. 4,278,137 07/14/1981 G. 4,283,088 08/11/1981 H. 4,296,785 10/27/1981 I. 4,299,295 11/10/1981 J. 4,303,127 12/01/1981 K. 4,305,464 12/15/1981 L. 4,312,377 01/26/1982 M. 4,317,492 03/02/1982 N. 4,328,577 05/04/1982 O. 4,366,988 01/04/1983 P. 4,372,398 02/08/1983 Q. 4,386,665 06/07/1983 R. 4,390,067 06/28/1983 S. 4,396,076 08/02/1983 T. 4,397,360 08/09/1983 U. 4,401,171 08/30/1983 V. 4,407,376 10/04/1983 W. 4,442,896 04/17/1984 X. 4,494,616 01/22/1985 Y. 4,512,422 04/23/1985 Z. 4,519,463 05/28/1985 AA. 4,527,639 07/09/1985	Unassigned Docket Number O67083.0287	Unassigned Docket Number Group Art Unit Unassigned Docket Number Group Art Unit Unassigned U.S. PATENT DOCUMENTS	Unassigned Joseph A. Zupanick October Number Group Art Unit December Group Art Unit Unassigned December Grow Art Unit Unassigned December Orong 3.0287 Unassigned December Unassigned December

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_	-1449			Application No. Unassigned	Applicant(s) Joseph A. Zup	anick	
In	ıforn	nation Disclosu in an Applicat		Docket Number 067083.0287	Group Art Unit Unassigned	Filing Date December	31, 2003
				U.S. PATENT DOCUM	ENTS		
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DAT
18	A.	4,544,037	10/01/1985	Тепту	166	369	02/21/1984
	B.	4,558,744	12/17/1985	Gibb	166	335	09/13/1983
1	C.	4,565,252	01/21/1986	Campbell et al.	175	269	03/08/1984
\sqcap	D.	4,573,541	03/04/1986	Josse et al.	175	78	08/09/1984
П	Ē.	4,599,172	07/08/1986	Gardes	210	314	12/24/1984
7	F.	4,600,061	07/15/1986	Richards	175	62	06/08/1984
†	G.	4,605,076	08/12/1986	Goodhart	175	61	08/03/1984
\dagger	H.	4,611,855	09/16/1986	Richards	299	2	05/11/1984
\dagger	1.	4,618,009	10/21/1986	Carter et al.	175	267	08/08/1984
†	J.	4,638,949	01/27/1987	Mancel	239	307	04/26/1984
十	K.	4,646,836	03/03/1987	Goodhart	166	303	12/20/1984
+	L.	4,674,579	06/23/1987	Geller et al.	175	45	03/07/1985
\dagger	M.	4,702,314	10/27/1987	Huang et al.	166	245	03/03/1986
+	Ñ.	4,705,431	11/10/1987	Gadelle et al.	405	267	12/20/1984
+	Ο.	4,715,440	12/29/1987	Boxell et al.	166	100	07/14/1986
\dagger	Ρ.	4,754,819	07/05/1988	Dellinger	175	61	03/11/1987
+	Q.	4,756,367	07/12/1988	Puri et al.	166	263	04/28/1987
+	R.	4,763,734	08/16/1988	Dickinson et al.	175	61	12/23/1985
	S.	4,773,488	09/27/1988	Bell et al.	175	61	08/08/1984
\dagger	T.	4,830,105	05/16/1989	Petermann	166	241	02/08/1988
$\dagger \dagger$	U.	4,836,611	06/06/1989	El-Saie	299	7	05/09/1988
\parallel	V.	4,842,081	06/27/1989	Parant	175	23	05/18/1988
\parallel	W.	4,844,182	07/04/1989	Tolle	175	215	06/07/1988
\dagger	X.	4,852,666	08/01/1989	Brunet et al.	175	61	04/07/1988
\parallel	Υ.	4,883,122	11/28/1989	Puri et al.	166	248	08/22/1990
H	Z.	4,978,172	12/18/1990	Schwoebel et al.	299	12	10/26/1989
X	AA.	5,016,710//	05/21/1991	Renard et al.	166	245	06/26/1987

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)-1449		Citotion	Application Unassign		Applicant(s) Joseph A. Zuj	panick	
) l	ntorr	nation Disclosu in an Applicat		Docket No 067083.		Group Art Unit Unassigned	Filing Date December	31, 2003
				U.S. PATE	NT DOCUM	ENTS		
		DOCUMENT NO.	DATE		NAME	CLASS	SUBCLASS	FILING DATE
M	A.	5,035,605	07/30/1991	Dinerman et	al.	481	018	02/16/1990
1	B.	5,036,921	08/06/1991	Pittard et al.		166	298	06/28/1990
	C.	5,074,360	12/24/1991	Guinn		166	281	07/10/1990
T	D.	5,074,365	12/24/1991	Kuckes		175	40	09/14/1990
+	E.	5,074,366	12/24/1991	Karlsson et a	1.	175	76	12/24/1991
T	F.	5,082,054	01/21/1992	Kiamanesh		166	248	08/22/1990
\top	G.	5,111,893	05/12/1992	Kvello-Aune		175	258	12/24/1990
T	Н.	5,135,058	08/04/1992	Millgard et a	1.	175	71	04/26/1990
T	1.	5,148,875	09/22/1992	Karlsson et a	1.	175	62	09/24/1991
\vdash	J.	5,165,491	11/24/1992	Wilson		175	62	04/29/1991
H	K.	5,168,942	12/08/1992	Wydrinski	<u>-</u>	175	50	10/21/1991
t^-	L.	5,174,374	12/29/1992	Hailey		166	55.8	10/17/1991
\vdash	M.	5,193,620	03/16/1993	Braddick		166	382	08/05/1991
\vdash	N.	5,194,859	03/16/1993	Warren		340	853.4	02/08/1991
1	Ο.	5,197,553	03/30/1993	Leturno		175	57	08/14/1991
	P.	5,197,783	03/30/1993	Theimer et a	l.	299	17	04/29/1991
H	Q.	5,199,496	04/06/1993	Redus et al.		166	366	10/18/1991
T	R.	5,201,817	04/13/1993	Hailey	<u> </u>	175	269	12/27/1991
\dagger	S.	5,217,076	06/08/1993	Masek		166	303	09/27/1991
+	T.	5,240,350	08/31/1993	Yamaguchi e	et al.	405	143	11/07/1991
+	V.	5,242,017	09/07/1993	Hailey		166	55.8	12/27/1991
\dagger	٧.	5,246,273	09/21/1993	Rosar		299	4	05/13/1991
+	W.	5,255,741	10/26/1993	Alexander		166	278	12/11/1991
+	X.	5,271,472	12/21/1993	Leturno		175	107	10/14/1992
+	Y.	5,301,760	04/12/1994	Graham		175	61	09/10/1992
ρς	Z.	5,363,927	11/15/1994	Frank		175	67	09/27/1993
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ır	itorn	nation Disclosu in an Applicat		Docket No 067083.	0287	Group Art Unit Unassigned	Filing Date December	31, 2003
				U.S. PATEN	IT DOCUME	ENTS		Τ
		DOCUMENT NO.	DATE		NAME	CLASS	SUBCLASS	FILING DATE
Q25	A.	5,385,205	01/31/1995	Hailey		166	55.8	10/04/1993
1	В.	5,394,950	03/07/1995	Gardes	-	175	45	05/21/1993
\sqcap	C.	5,402,851	04/04/1995	Baiton	<u>-</u>	166	369	05/03/1993
\sqcap	D.	5,411,082	05/02/1995	Kennedy		166	181	01/26/1994
11	E.	5,411,085	05/02/1995	Moore et al.		166	242	11/01/1993
\top	F.	5,411,104	05/02/1995	Stanley		175	65	02/16/1994
T	G.	5,411,105	05/02/1995	Gray		175	69	06/14/1994
T	H.	5,431,220	07/11/1995	Lennon et al.		166	55.7	03/24/1994
11	I.	5,435,400	07/25/1995	Smith	*	175	61	05/25/1994
\Box	J	5,447, 416	09/05/1995	Wittrisch		417	442	03/28/1994
	K.	5,450,902	09/19/1995	Matthews		166	268	05/14/1993
T	L.	5,454,419	10/03/1995	Vloedman		166	277	09/19/1994
\Box	M.	5,458,209	10/17/1995	Hayes et al.		175	61	06/11/1993
† †	N.	5,462,116	10/31/1995	Carroll		166	249	10/26/1994
$\dagger \dagger$	Ο.	5,462,120	10/31/1995	Gondouin		166	380	01/04/1993
11	Р.	5,469,155	11/21/1995	Archambeau	lt et al.	340	853.4	07/11/1994
\Box	Q.	5,477,923	12/26/1995	Jordan, Jr. et	al.	66	313	01/26/1994
	R.	5,485,089	01/16/1996	Kuckes		324	346	10/08/1993
П	S.	5,494,121	02/27/1996	Nackerud	···	175	263	11/29/1994
	Т.	5,499,687	03/19/1996	Lee		175	317	11/18/1991
\Box	U.	5,501,273	03/26/1996	Puri		166	252.5	10/04/1994
\Box	V.	5,501,279	03/26/1996	Garg et al.		166	372	01/12/1995
$\dagger \dagger$	W.	5,584,605	12/17/1996	Beard et al.		405	128	06/29/1995
$\dagger \dagger$	X	5,613,242	03/18/1997	Oddo		588	17	12/06/1994
$\dagger \dagger$	Y.	5,615,739	04/01/1997	Dallas		166	306	04/30/1996
††	Z.	5,669,444	09/23/1997	Riese et al.		166	263	01/31/1996
$\dagger \dagger$	AA.	5,680,901	10/28/1997	Gardes		166	313	12/14/1995
+	BB.	5,690,390	11/25/1997	Bithell	. 	299	4	04/19/1996
195	CC.	5,706,8717	01/13/1998	Anderson et	al.	141	59	08/15/1995
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		DOCUMENT NO	DATE	U.S. PATENT DOCU	MENTS	CLASS	SUBCLASS	FILING DATE
7	A.	5,720,356	DATE 02/24/1998	Gardes		175	62	02/01/1996
<u>177</u>	B.	5,727,629	03/17/1998	Blizzard, Jr. et al.		166	298	01/24/1996
+	C.	5,735,350	04/07/1998	Longbottom et al.		166	313	10/15/1996
+	D.	5,771,976	06/30/1998	Talley		166	370	07/19/1996
╁┤	E.	5,785,133	07/28/1998	Murray et al.		175	61	08/29/1995
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PTC)-1449 Infori	mation Disclosure Cit	ation	Una	ication No. ssigned	Applicant(s) Joseph A. Zup		
	111011	in an Application		0670	tet Number 083.0287	Group Art Unit Unassigned	Filing Date December 3	1, 2003
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+	н.	5,938,004	08/17/199	9	Roberts et al.	198	812	02/14/1997
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H	K.	6,209,636	04/03/200)1	Roberts et al.	166	117.6	03/07/1999
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††	M.	6,566,649	05/20/200)3	Mickael	250	269.3	05/26/2000
H	N.	6,571,888	06/03/200)3	Comeau et al.	175	61	05/14/200
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